

On page 6, line 5, please replace the phrase "instructs the browser" with -instruct the browser--.

IN THE CLAIMS:

Please cancel claims 1-10 without prejudice or disclaimer as to the subject matter therein.

Please add claims 11-54 as indicated below.

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11. (added) A method, comprising:

accessing a sequence of script language instructions; and

generating a platform-independent programming language representation of the sequence of script language instructions;

wherein the platform-independent programming language representation comprises a sequence of logical commands representing the sequence of script language instructions, and wherein each of the logical commands is stored as one or more platform-independent programming language objects; and

wherein the platform-independent programming language representation is executable to produce results in accordance with the original sequence of script language instructions.

12. (added) The method as recited in claim 11, wherein the platform-independent programming language objects of the platform-independent programming language

representation are stored in a stack data structure, and wherein said executing is performed by a stack-machine interpreter engine configured to pop the one or more platform-independent programming language objects for each of the logical commands of the platform-independent programming language representation off the stack data structure when executing the particular logical command of the platform-independent programming language representation.

A/ 13. (added) The method as recited in claim 11, wherein the platform-independent programming language objects of the platform-independent programming language representation include platform-independent programming language objects representing operators.

14. (added) The method as recited in claim 11, wherein the platform-independent programming language objects of the platform-independent programming language representation include platform-independent programming language objects representing operands.

15. (added) The method as recited in claim 11, wherein the platform-independent programming language objects of the platform-independent programming language representation are derived from abstract platform-independent programming language classes.

16. (added) The method as recited in claim 15, wherein each of the platform-independent programming language objects of the platform-independent programming language representation includes information identifying the particular object as representing one of an operator and an operand.

17. (added) The method as recited in claim 16, wherein each of the platform-independent programming language objects of the platform-independent programming language representation further includes information indicating a specific operator or operand represented by the particular object.

18. (added) The method as recited in claim 17, wherein said executing the platform-independent programming language representation comprises accessing a plurality of platform-independent programming language objects in one or more object libraries to implement the specific operators and operands as indicated by the platform-independent programming language objects of the platform-independent programming language representation.

19. (added) The method as recited in claim 11, wherein said generating a platform-independent programming language representation of the sequence of script language instructions comprises:

modifying one or more platform-independent programming language objects comprised in one or more object libraries;

wherein the modified one or more platform-independent programming language objects comprised in the one or more object libraries are referenced by the one or more platform-independent programming language objects of the platform-independent programming language representation; and

wherein the modifications to the one or more platform-independent programming language objects comprised in the one or more object libraries are required in said executing the platform-independent programming language representation to produce the results in accordance with the original sequence of script language instructions.

20. (added) The method as recited in claim 19, wherein said modifying the one or more platform-independent programming language objects comprises adding one or more methods to one of the one or more platform-independent programming language objects.

21. (added) The method as recited in claim 19, wherein said modifying the one or more platform-independent programming language objects comprises deleting one or more methods from one of the one or more platform-independent programming language objects.

22. (added) The method as recited in claim 19, wherein said modifying the one or more platform-independent programming language objects comprises adding one or more data fields to one of the one or more platform-independent programming language objects.

A 23. (added) The method as recited in claim 19, wherein said modifying the one or more platform-independent programming language objects comprises deleting one or more data fields from one of the one or more platform-independent programming language objects.

24. (added) The method as recited in claim 11, wherein the sequence of script language instructions is detected in a markup language document by a Web browser prior to said accessing.

25. (added) The method as recited in claim 24, wherein the Web browser is a Java-based Web browser executing within a Java Virtual Machine.

26. (added) The method as recited in claim 11, wherein an interpreter engine performs said generating a platform-independent programming language representation.

27. (added) The method as recited in claim 11, wherein the platform-independent programming language is Java, and wherein the script language is JavaScript.

28. (added) A device, comprising:

a processor;

a memory coupled to said processor and operable to store program instructions implementing an interpreter engine, wherein the interpreter engine is executable by the processor to:

access a sequence of script language instructions;

generate a platform-independent programming language representation of the sequence of script language instructions, wherein the platform-independent programming language representation comprises a sequence of logical commands representing the sequence of script language instructions, and wherein each of the logical commands is stored in the memory as one or more platform-independent programming language objects; and

interpret and execute the platform-independent programming language representation to produce results in accordance with the original sequence of script language instructions.

29. (added) The device as recited in claim 28, wherein the platform-independent programming language objects of the platform-independent programming language representation are stored in a stack data structure, and wherein the interpreter engine is a stack-machine interpreter engine further executable by the processor to pop the one or more platform-independent programming language objects for each of the logical commands of the platform-independent programming language representation off the stack data structure when executing the particular logical command of the platform-independent programming language representation.

30. (added) The device as recited in claim 28, wherein the platform-independent programming language objects of the platform-independent programming language

representation are derived from abstract platform-independent programming language classes.

31. (added) The device as recited in claim 30, wherein each of the platform-independent programming language objects of the platform-independent programming language representation includes information identifying the particular object as representing one of an operator and an operand.

32. (added) The device as recited in claim 31, wherein each of the platform-independent programming language objects of the platform-independent programming language representation further includes information indicating a specific operator or operand represented by the particular object.

33. (added) The device as recited in claim 32, further comprising:

an object library comprising a plurality of platform-independent programming language objects;

wherein, in said interpreting and executing the platform-independent programming language representation, the interpreter engine is further executable by the processor to:

access the plurality of platform-independent programming language objects in the object library to implement the specific operators and operands as indicated by the platform-independent programming language objects of the platform-independent programming language representation.

34. (added) The device as recited in claim 28, further comprising:

an object library comprising a plurality of platform-independent programming language objects;

wherein, in said generating a platform-independent programming language representation of the sequence of script language instructions, the interpreter engine is further executable by the processor to:

modify one or more of the plurality of platform-independent programming language objects comprised in the object library;

wherein the modified one or more platform-independent programming language objects are referenced by the one or more platform-independent programming language objects of the platform-independent programming language representation; and

wherein the modifications to the one or more platform-independent programming language objects comprised in the one or more object libraries are required in said interpreting and executing the platform-independent programming language representation to produce the results in accordance with the original sequence of script language instructions.

35. (added) The device as recited in claim 28, wherein the device further comprises a Web browser executable within the device to:

detect the sequence of script language instructions in a markup language document; and

pass execution to the interpreter engine in response to said detecting;

wherein the interpreter engine accessing the sequence of script language instructions is performed after said passing execution.

36. (added) The device as recited in claim 35, wherein the device further comprises a Java Virtual Machine executable within the device, and wherein the Web browser is a Java-based Web browser executing within the Java Virtual Machine.

37. (added) The device as recited in claim 28, wherein the platform-independent programming language is Java, and wherein the script language is JavaScript.

38. (added) A device, comprising:

a processor;

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a memory coupled to said processor and operable to store program instructions implementing an interpreter engine, wherein the interpreter engine is executable by the processor to:

interpret and execute a platform-independent programming language representation of a sequence of script language instructions, wherein the platform-independent programming language representation comprises a sequence of logical commands representing the sequence of script language instructions, and wherein each of the logical commands is stored in the memory as one or more platform-independent programming language objects; and

generate results of said interpreting and executing in accordance with the original sequence of script language instructions.

39. (added) The device as recited in claim 38, wherein the platform-independent programming language objects of the platform-independent programming language

representation are stored in a stack data structure, and wherein the interpreter engine is a stack-machine interpreter engine further executable by the processor to pop the one or more platform-independent programming language objects for each of the logical commands of the platform-independent programming language representation off the stack data structure when executing the particular logical command of the platform-independent programming language representation.

40. (added) The device as recited in claim 38, wherein the platform-independent programming language objects of the platform-independent programming language representation are derived from abstract platform-independent programming language classes.

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41. (added) The device as recited in claim 40, wherein each of the platform-independent programming language objects of the platform-independent programming language representation includes information identifying the particular object as representing one of an operator and an operand.

42. (added) The device as recited in claim 41, wherein each of the platform-independent programming language objects of the platform-independent programming language representation further includes information indicating a specific operator or operand represented by the particular object.

43. (added) The device as recited in claim 42, further comprising:

an object library comprising a plurality of platform-independent programming language objects;

wherein, in said interpreting and executing the platform-independent programming language representation, the interpreter engine is further executable by the processor to:

access the plurality of platform-independent programming language objects in the object library to implement the specific operators and operands as indicated by the platform-independent programming language objects of the platform-independent programming language representation.

44. (added) The device as recited in claim 38, wherein the device further comprises a Java Virtual Machine executable within the device, and wherein the interpreter engine is a Java-based interpreter engine executing within the Java Virtual Machine.

45. (added) The device as recited in claim 38, wherein the platform-independent programming language is Java, and wherein the script language is JavaScript.

46. (added) A carrier medium comprising program instructions, wherein the program instructions are computer-executable to implement:

accessing a sequence of script language instructions; and

generating a platform-independent programming language representation of the sequence of script language instructions;

wherein the platform-independent programming language representation comprises a sequence of logical commands representing the sequence of script language instructions, and wherein each of the logical commands is stored as one or more platform-independent programming language objects; and

wherein the platform-independent programming language representation is executable to produce results in accordance with the original sequence of script language instructions.

47. (added) The carrier medium as recited in claim 46, wherein the platform-independent programming language objects of the platform-independent programming language representation are stored in a stack data structure, and wherein said executing is performed by a stack-machine interpreter engine configured to pop the one or more platform-independent programming language objects for each of the logical commands of the platform-independent programming language representation off the stack data structure when executing the particular logical command of the platform-independent programming language representation.

48. (added) The carrier medium as recited in claim 46, wherein the platform-independent programming language objects of the platform-independent programming language representation are derived from abstract platform-independent programming language classes.

49. (added) The carrier medium as recited in claim 48, wherein each of the platform-independent programming language objects of the platform-independent programming language representation includes information identifying the particular object as representing one of an operator and an operand.

50. (added) The carrier medium as recited in claim 49, wherein each of the platform-independent programming language objects of the platform-independent programming language representation further includes information indicating a specific operator or operand represented by the particular object.

51. (added) The carrier medium as recited in claim 50, wherein said executing the platform-independent programming language representation comprises accessing a plurality of platform-independent programming language objects in one or more object libraries to implement the specific operators and operands as indicated by the platform-independent programming language objects of the platform-independent programming language representation.

52. (added) The carrier medium as recited in claim 46, wherein said generating a platform-independent programming language representation of the sequence of script language instructions comprises:

modifying one or more platform-independent programming language objects comprised in one or more object libraries;

wherein the modified one or more platform-independent programming language objects comprised in the one or more object libraries are referenced by the one or more platform-independent programming language objects of the platform-independent programming language representation; and

wherein the modifications to the one or more platform-independent programming language objects comprised in the one or more object libraries are required in said executing the platform-independent programming language representation to produce the results in accordance with the original sequence of script language instructions.

53. (added) The carrier medium as recited in claim 46, wherein the sequence of script language instructions is detected in a markup language document by a Java-based Web browser executing within a Java Virtual Machine prior to said accessing.

54. (added) The carrier medium as recited in claim 46, wherein the platform-independent programming language is Java, and wherein the script language is JavaScript.